

## ECT400-AS-L FOUR CHANNEL UNIVERSAL ANALOG SIGNAL FM OPTICAL LINK WITH UP TO 120 km/75 mi RANGE



|                  |
|------------------|
| Analog<br>Signal |
| 4                |
| →                |

The ECT400-AS-L FM system provides high performance link for unidirectional transmission of various analog signals over four, two or one a fiber optic cable.

The ECT400-AS-L FM system is fully compatible with ECT100AS, ECT100AS-L, ECT200-AS & ECT200-AS-L type systems allowing for mixed configurations when required.

The ECT400-AS-L system utilizes wideband linear frequency modulation/demodulation and very low noise transmission technology to assure high quality and stability.

### FEATURES

- ❑ Wideband FM Transmitting/Receiving Technology
- ❑ Universal Balanced/Unbalanced Input for Transmitter
- ❑ Supports Transmission of Various Analog Signals such as: Video HDTV Tri-Level Sync, T1/E1, RF/IF, Timing, Telemetry Signals and more
- ❑ Operating Range Up to 120 km / 75 miles
- ❑ Four, Two and One Fiber Configurations
- ❑ High Accuracy In/Out Signal Transmission with No Adjustments
- ❑ Signal Status Indicators

|                              |                 |              |                           |
|------------------------------|-----------------|--------------|---------------------------|
| <b>Configuration</b>         | 4 Fiber         | 2 Fiber      | 1 Fiber                   |
| <b>Operating Wavelength</b>  | 1550 nm         | 1530/1570 nm | 1490, 1530, 1570, 1610 nm |
| <b>Optical Core Diameter</b> | 8/10μ           |              |                           |
| <b>Optical Power Source</b>  | DFB Laser       |              |                           |
| <b>Optical Power Output</b>  | 0 (+/- 0.5) dBm |              |                           |
| <b>Receiver Sensitivity:</b> | -37 dBm         | -36 dBm      |                           |
| <b>Optical Connectors</b>    | FC, SC, ST      |              |                           |

|                                   |  |
|-----------------------------------|--|
| <b>Signal Bandwidth @ 2dB</b>     | 10 Hz - 30 MHz   |
| <b>Input Impedance (TX)</b>       | 50, 75, 100 Ohm, Custom<br>universal: balanced or unbalanced;<br>up to 1 MOhm – unbalanced |
| <b>Output Load Impedance (RX)</b> | 50, 75, 100 Ohm, Custom  |
| <b>Input/Output Signal Level:</b> |  |
| Option 1                          | 0 to +/- 2 V @ 50 Ohm  |
| Option 2                          | 0 to +/- 2.5 V @ 75, 100 Ohm,<br>Custom  |
| <b>Signal Transfer Accuracy</b>   | < 5% @ 10 Hz – 10 MHz<br>< 10% @ 10 MHz – 20 MHz<br>< 20% @ 20 MHz – 30 MHz                |
| <b>Signal-to-Noise Ratio*</b>     | 64 dB  |
| <b>Input/Output Connector</b>     | BNC  |
| <b>Power Requirements:</b>        |  |
| <b>Transmitter Card/Module</b>    | 11 - 15 VDC @ 0.35 A   |
| <b>Receiver Card/Module</b>       | 11 - 15 VDC @ 0.55 A   |
| <b>Operating Temperature</b>      | -20°C to +60°C (-4°F to +140°F)  |
| <b>Dimensions:</b>                | 11.6''(295 mm) x 5.2''(132 mm) x<br>1.05''(27 mm)  |

\*measured with 1km for single mode optical cable and 10 dBm optical attenuation.



## ORDERING INFORMATION

400S-AST/I-M4Z-L – transmitter module 1550 nm / 4 fiber  
400S-AST/I-M2Z-L – transmitter module 1530 & 1570 nm / 2 fiber  
400S-AST/I-M1Z-L – transmitter module 1490, 1530, 1570 & 1610 nm / 1 fiber

400S-AST/I-C4Z-L – transmitter card\* 1550 nm / 4 fiber  
400S-AST/I-C2Z-L – transmitter card\* 1530 & 1570 nm / 2 fiber  
400S-AST/I-C1Z-L – transmitter card\* 1490, 1530, 1570 & 1610 nm / 1 fiber

400S-ASR/I-M4Z-L – receiver module 1260 - 1620 nm / 4 fiber  
400S-ASR/I-M2Z-L – receiver module 1530 & 1570 nm / 2 fiber  
400S-ASR/I-M1Z-L – receiver module 1490, 1530, 1570 & 1610 nm / 1 fiber

400S-ASR/I-C4Z-L – receiver card\* 1260 - 1620 nm / 4 fiber  
400S-ASR/I-C2Z-L – receiver card\* 1530 & 1570 nm / 2 fiber  
400S-ASR/I-C1Z-L – receiver card\* 1490, 1530, 1570 & 1610 nm / 1 fiber

**I** = 50, 75, 100 Ohm, Custom for input/output impedance

**Z** = FC, SC, ST for optical connectors

*\*compatible with USR type chassis;*

**Note:** The specifications are subject to change without notice.



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